

204 EMBANKMENT FILL

204.01 DESCRIPTION

This item shall consist of the construction of embankments to the lines, grades, and cross sections shown in the contract documents or as directed by the Engineer. Approved sources of material may include suitable excavated materials from the project location that meet specification requirements.

Approved fill materials excavated from the project location and incorporated into the finished work shall be known as Embankment Fill. Embankment materials obtained from other approved locations shall be known as Borrow Embankment Fill.

204.02 MATERIALS

Material shall conform to 804.02.

204.03 CONSTRUCTION REQUIREMENTS

Embankment fill shall be constructed in accordance with 203 and the following:

(1) The minimum in place density of the top 6 inches of in-situ soil shall be 93 percent for areas to be covered with at least 6 inches of embankment fill.

(2) The minimum in place density of embankment fill shall be: (a) 93 percent for each layer up to 6 inches below subgrade; (b) 95 percent for top 6 inches layer below subgrade; and (c) 95 percent for full depth of embankment in confined areas where the use of clean sand is permitted.

Where embankments are to be made on, or merge with, a slope or an existing embankment having a slope steeper than three to one (3:1), the existing slope shall be cut in benches or steps as each lift is placed and to the depth directed by the Engineer.

Where the thickness of the embankment to be placed is less than 2 feet, any existing hard surface payments shall be removed and the area compacted as in-situ soil immediately following the excavation and prior to placing any fill material; any soft spots revealed by this compaction shall be removed and replaced to the depth indicated by the Engineer. Where the thickness of the embankment to be placed is greater than 2 feet, any existing hard surface pavement shall be punctured, ruptured, or broken prior to placing any fill material.

Areas which have been cleared and grubbed shall be compacted as in-situ soil before placing any embankment material; any soft spots revealed by this compaction shall be removed and replaced to the depth indicated by the Engineer.

204.04 MEASURE AND PAYMENT

The unit of measure for Embankment Fill or Borrow Embankment Fill will be the cubic yard. The number of cubic yards will be computed by the average end area method; however, the Engineer may substitute other methods to determine the correct quantities.

The actual number of cubic yards of Embankment Fill or Borrow Embankment Fill as determined will be paid for at the contract unit price per cubic yard, which payment will include labor, materials, tools, equipment, and incidentals necessary to complete the work as specified herein, including furnishing, stockpiling, hauling and compaction.